

	Document ID	Title
1	US 20040132677 A1	Chimeric immunomodulatory compounds and methods of using the same-IV
2	US 20040106567 A1	Intravascular delivery of non-viral nucleic acid
3	US 20040023850 A1	Delivery of molecules and complexes to mammalian cells in vivo
4	US 20030236214 A1	Charge reversal of polyion complexes and treatment of peripheral occlusive disease
5	US 20030225016 A1	Chimeric immunomodulatory compounds and methods of using the same - III
6	US 20030199466 A1	Chimeric immunomodulatory compounds and methods of using the same - II
7	US 20030198678 A1	Polynucleotide compositions
8	US 20030175731 A1	Chimeric immunomodulatory compounds and methods of using the same - I
9	US 20030118550 A1	Compositions and methods for inducing activation of dendritic cells
10	US 20030049266 A1	Immunomodulatory polynucleotides and methods of using the same
11	US 20020013282 A1	CATIONIC AMPHIPHILE COMPOSITIONS FOR INTERACELLULAR DELIVERY OF THERAPEUTIC MOLECULES
12	US 6440743 B1	Methods of using polynucleotide compositions
13	US 6383814 B1	Cationic amphiphiles for intracellular delivery of therapeutic molecules
14	US 6359054 B1	Polynucleotide compositions for intramuscular administration

	Document ID	Title
15	US 6353055 B1	Polynucleotide compositions
16	US 6331524 B1	Organ-specific targeting of cationic amphiphile / DNA complexes for gene therapy
17	US 6221959 B1	Polynucleotide compositions
18	US 6071890 A	Organ-specific targeting of cationic amphiphile/DNA complexes for gene therapy
19	US 5948767 A	Cationic amphiphile/DNA complexes
20	US 5939401 A	Cationic amphiphile compositions for intracellular delivery of therapeutic molecules
21	US 5910487 A	Cationic amphiphiles and plasmids for intracellular delivery of therapeutic molecules
22	US 5840710 A	Cationic amphiphiles containing ester or ether-linked lipophilic groups for intracellular delivery of therapeutic molecules
23	US 5783565 A	Cationic amphiphiles containing spermine or spermidine cationic group for intracellular delivery of therapeutic molecules
24	US 5767099 A	Cationic amphiphiles containing amino acid or dervatized amino acid groups for intracellular delivery of therapeutic molecules

	Document ID	Title
25	US 5747471 A	Cationic amphiphiles containing steroid lipophilic groups for intracellular delivery of therapeutic molecules
26	US 5719131 A	Cationic amphiphiles containing dialkylamine lipophilic groups for intracellular delivery of therapeutic molecules

	Document ID	Title
1	US 20040067587 A1	Process for generating multilayered particles
2	US 20040029826 A1	Compounds for targeting hepatocytes in vivo
3	US 20040019008 A1	Compositions and processes using siRNA, amphipathic compounds and polycations
4	US 20030224055 A1	Compositions and processes for inhibiting gene expression using polynucleotides
5	US 20030203865 A1	Lipid-comprising drug delivery complexes and methods for their production
6	US 20030143204 A1	Inhibition of RNA function by delivery of inhibitors to animal cells
7	US 20030130224 A1	Expression of zeta negative and zeta positive nucleic acids using a dystrophin gene
8	US 20030127333 A1	Integrated solid-phase hydrophilic matrix circuits and micro-arrays
9	US 20030125281 A1	Compositions and processes using siRNA, amphipathic compounds and polycations
10	US 20030124149 A1	Bioactive absorbable microparticles as therapeutic vaccines
11	US 20030099697 A1	Amphoteric liposomes and their use
12	US 20030026840 A1	Combinations for introducing nucleic acids into cells
13	US 20030017972 A1	Complexing agents for compositions containing inclusion complexes
14	US 20030008818 A1	Compositions containing inclusion complexes

	Document ID	Title
15	US 20020137670 A1	Transferrin polycation/DNA complexes for the systemic treatment of tumor diseases with cytotoxic proteins
16	US 6740336 B2	Process for generating multilayered particles
17	US 6331524 B1	Organ-specific targeting of cationic amphiphile / DNA complexes for gene therapy
18	US 5948767 A	Cationic amphiphile/DNA complexes
19	US 5221483 A	Process and apparatus for removal of DNA, viruses and endotoxins
20	US 5076933 A	Process and apparatus for removal of DNA and viruses

	Document ID	Title
1	US 20040115192 A1	Ligand-targeted emulsions carrying bioactive agents
2	US 20040067587 A1	Process for generating multilayered particles
3	US 20040029826 A1	Compounds for targeting hepatocytes in vivo
4	US 20040019008 A1	Compositions and processes using siRNA, amphipathic compounds and polycations
5	US 20030224055 A1	Compositions and processes for inhibiting gene expression using polynucleotides
6	US 20030203865 A1	Lipid-comprising drug delivery complexes and methods for their production
7	US 20030143204 A1	Inhibition of RNA function by delivery of inhibitors to animal cells
8	US 20030130224 A1	Expression of zeta negative and zeta positive nucleic acids using a dystrophin gene
9	US 20030127333 A1	Integrated solid-phase hydrophilic matrix circuits and micro-arrays
10	US 20030125281 A1	Compositions and processes using siRNA, amphipathic compounds and polycations
11	US 20030124149 A1	Bioactive absorbable microparticles as therapeutic vaccines
12	US 20030099697 A1	Amphoteric liposomes and their use
13	US 20030026840 A1	Combinations for introducing nucleic acids into cells
14	US 20030017972 A1	Complexing agents for compositions containing inclusion complexes
15	US 20030008818 A1	Compositions containing inclusion complexes

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16	US 20020137670 A1	Transferrin polycation/DNA complexes for the systemic treatment of tumor diseases with cytotoxic proteins
17	US 20020102216 A1	Enhanced ultrasound detection with temperature-dependent contrast agents
18	US 6740336 B2	Process for generating multilayered particles
19	US 6680170 B2	Polynucleotides encoding STE20-related protein kinases and methods of use
20	US 6676963 B1	Ligand-targeted emulsions carrying bioactive agents
21	US 6656716 B1	Polypeptide fragments of human PAK5 protein kinase
22	US 6331524 B1	Organ-specific targeting of cationic amphiphile / DNA complexes for gene therapy
23	US 5948767 A	Cationic amphiphile/DNA complexes
24	US 5221483 A	Process and apparatus for removal of DNA, viruses and endotoxins

	Document ID	Title
25	US 5076933 A	Process and apparatus for removal of DNA and viruses

FILE 'MEDLINE, EMBASE, BIOSIS' ENTERED AT 16:00:43 ON 13 JUL 2004

L1 4213 S "ZETA POTENTIAL"
L2 176 S "NEGATIVE ZETA POTENTIAL"
L3 3370505 S DNA OR RNA OR NUCLEOTIDE OR POLYNUCLEOTIDE OR RIBONUCLEIC
L4 1158107 S TRANSFECT? OR TRANSDUCT? OR TRANSFORM?
L5 11583 S CATION? (S) (LIPID OR POLYMER OR SURFACTANT)
L6 9537956 S CELL OR PARENCHYMAL OR TISSUE OR ORGAN
L7 1268628 S VEIN OR ARTERY OR "BLOOD VESSEL" OR VESSEL OR VASCULATURE
L8 241275 S PERMEABIL?
L9 475660 S INCREAS? (S) (VOLUME OR PRESSURE OR FLUID)
L10 11769 S L8 (P) L9
L11 293 S L1 AND L3 AND L4
L12 5 S L11 AND L2
L13 4 DUP REM L12 (1 DUPLICATE REMOVED)
L14 10 S L10 AND L1
L15 0 S L10 AND L2
L16 9 DUP REM L14 (1 DUPLICATE REMOVED)
L17 6 S L16 NOT PY>=2000
L18 0 S L11 AND L10
L19 1 S L11 AND L9
L20 2645 S L7 AND L10
L21 3 S L20 AND L5
L22 1 DUP REM L21 (2 DUPLICATES REMOVED)
L23 3124 S L7 AND L8 AND L9
L24 2 S L23 AND L1
L25 1 DUP REM L24 (1 DUPLICATE REMOVED)
L26 0 S L23 AND L2
L27 43 S L23 AND L4
L28 35 DUP REM L27 (8 DUPLICATES REMOVED)
L29 19 S L28 NOT PY>=2000
L30 700766 S LIPID OR LIPOSOME OR MICELLE OR POLYMER
L31 0 S L29 AND L30
L32 0 S L29 AND L5
L33 1 S L29 AND VECTOR
L34 296209 S L6 AND L3 AND L4
L35 214 S L34 AND L1
L36 137 S L35 AND L30
L37 80 DUP REM L36 (57 DUPLICATES REMOVED)
L38 1 S L37 AND L2
L39 20 S L37 NOT PY>=2000
L40 0 S L39 AND L8 AND L9
L41 0 S L39 AND L10

=> s 139 and 18

L42 0 L39 AND L8

=> s 139 and 12

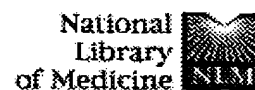
L43 0 L39 AND L2

L Number	Hits	Search Text	DB	Time stamp
1	52	Hennink.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:44
2	3908	"zeta potential"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:44
4	255706	nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:44
3	168	"zeta potential" SAME "positive charge"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:44
5	49	("zeta potential" SAME "positive charge") and (nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:44
6	136	"zeta potential" SAME (nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:45
7	1	Hennink.in. and "zeta potential"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:46
8	743	negative WITH "zeta potential"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:46
9	89	(negative WITH "zeta potential") and (nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:49
10	42625	cation\$ WITH (lipid or polymer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 13:51
11	42	((negative WITH "zeta potential") and (nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$)) and (cation\$ WITH (lipid or polymer))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:20
12	97	wolff-jon\$.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:20
13	32	wolff-jon\$.in. and zeta	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:44
14	774341	transfec\$ or transduct\$ or transform\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:45
15	114959	(nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:45
16	1733989	cell or parenchymal or tissue or liver or spleen or heart or kidney or prostate or skin or testis or skeletal or fat or bladder or brain or pancreas or thymus or lung	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:47

17	103370	((nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)) and (cell or parenchymal or tissue or liver or spleen or heart or kidney or prostate or skin or testis or skeletal or fat or bladder or brain or pancreas or thymus or lung)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:48
19	426	"zeta potential".clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:52
20	41	"zeta potential".clm. and (nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:49
21	48	"negative zeta potential".clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:54
22	2	"negative zeta potential".clm. and DNA	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:52
23	4	"negative zeta potential".clm. and (transfec\$ or transduct\$ or transform\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:54
18	277	((nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)) and (cell or parenchymal or tissue or liver or spleen or heart or kidney or prostate or skin or testis or skeletal or fat or bladder or brain or pancreas or thymus or lung)) and "zeta potential"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 14:56
24	20	((nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)) and (cell or parenchymal or tissue or liver or spleen or heart or kidney or prostate or skin or testis or skeletal or fat or bladder or brain or pancreas or thymus or lung)) and "zeta potential" and "negative zeta"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:00
25	5	627616.pn. or 6379966.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:01
26	2	6627616.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:24
27	25	((nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)) and (cell or parenchymal or tissue or liver or spleen or heart or kidney or prostate or skin or testis or skeletal or fat or bladder or brain or pancreas or thymus or lung)) and "negative zeta"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:26
28	79	mirus.as.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:26

29	5	mirus.as. and "zeta potential"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:43
30	26	(((((nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucleo\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)) and (cell or parenchymal or tissue or liver or spleen or heart or kidney or prostate or skin or testis or skeletal or fat or bladder or brain or pancreas or thymus or lung)) and "zeta potential") and "increased permeability"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:50
31	2	(((((nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucleo\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)) and (cell or parenchymal or tissue or liver or spleen or heart or kidney or prostate or skin or testis or skeletal or fat or bladder or brain or pancreas or thymus or lung)) and "zeta potential") and "increased permeability") and "negative zeta"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:52
32	331018	permeab\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:53
33	552270	increas\$ WITH (volume or pressure or fluid)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:54
34	116674	vein or artery or "blood vessel" or "vascular structure"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:54
35	3884	(increas\$ WITH (volume or pressure or fluid)) SAME (vein or artery or "blood vessel" or "vascular structure")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:55
36	117	permeab\$ SAME (((increas\$ WITH (volume or pressure or fluid)) SAME (vein or artery or "blood vessel" or "vascular structure"))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 15:55
37	2	(permeab\$ SAME (((increas\$ WITH (volume or pressure or fluid)) SAME (vein or artery or "blood vessel" or "vascular structure"))) and "negative zeta"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 16:56
38	610	mammalian WITH (vein or artery or "blood vessel" or "vascular structure")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 16:57
39	76	(mammalian WITH (vein or artery or "blood vessel" or "vascular structure")) and permeab\$ and (increas\$ WITH (volume or pressure or fluid))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 16:58
41	55	((mammalian WITH (vein or artery or "blood vessel" or "vascular structure")) and permeab\$ and (increas\$ WITH (volume or pressure or fluid))) and (nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucleo\$ or ribonucleo\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 17:01
40	58	((mammalian WITH (vein or artery or "blood vessel" or "vascular structure")) and permeab\$ and (increas\$ WITH (volume or pressure or fluid))) and (transfec\$ or transduct\$ or transform\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 17:01

42	54	((mammalian WITH (vein or artery or "blood vessel" or "vascular structure")) and permeab\$ and (increas\$ WITH (volume or pressure or fluid))) and (nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 17:01
43	54	((mammalian WITH (vein or artery or "blood vessel" or "vascular structure")) and permeab\$ and (increas\$ WITH (volume or pressure or fluid))) and (nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 17:37
44	20709	intravascular\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 17:37
45	41	((mammalian WITH (vein or artery or "blood vessel" or "vascular structure")) and permeab\$ and (increas\$ WITH (volume or pressure or fluid))) and (nucleotide or "nucleic acid" or polynucleotide or DNA or RNA or deoxyribonucle\$ or ribonucleo\$) and (transfec\$ or transduct\$ or transform\$)) and intravascular\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 17:38
46	1786	intravascular\$ WITH delivery	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 17:39
47	1	(intravascular\$ WITH delivery) SAME (negative WITH "zeta potential")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/13 17:39



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